

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a receiving computer system that is communicatively coupled network connectable to an IEEE 1394 network, a method for waking a link layer at the receiving computer system based on data included in a network data packet, the method comprising:

an act of a physical layer receiving a network data packet from a sending computer system, the sending computer system being communicatively coupled network connectable to the IEEE 1394 network;

an act of the physical layer parsing a plurality of bytes of packet data contained in the received network data packet;

an act of comparing at least a portion of the packet data to rule data in a physical layer rule register;

an act of determining whether a corresponding link layer is in a reduced power mode; and

an act of determining if the physical layer is to assert a Link-Link On signal based on the results of the comparison and upon determining that the corresponding link layer is in the reduced power mode, the Link On signal being a signal that, when received at the link layer, wakes the corresponding link layer.

2. (Currently Amended) The method as recited in claim 1, wherein the act of a physical layer receiving a network data packet comprises an act of the physically-physical layer receiving a primary packet.

3. (Currently Amended) The method as recited in claim 1, wherein the act of a physical layer receiving a network data packet comprises an act of the physically-physical layer receiving a PHY layer packet.

4. (Currently Amended) The method as recited in claim 1, wherein the act of the physical layer parsing a plurality of bytes of packet data contained in the received network data packet

comprises an act of the physical layer parsing a plurality of bytes of packet data contained in a received primary packet.

5. (Currently Amended) The method as recited in claim 1, wherein the act of the physical layer parsing a plurality of bytes of packet data contained in the received network data packet comprises an act of the physical layer parsing a plurality of bytes of packet data contained in a received PHY layer packet.

6. (Currently Amended) The method as recited in claim 1, wherein the act of the physical layer parsing a plurality of bytes of packet data contained in the received network data packet comprises an act of the physical layer parsing a transaction code contained in the received network data packet.

7. (Currently Amended) The method as recited in claim 1, wherein the act of the physical layer parsing a plurality of bytes of packet data contained in the received network data packet comprises an act of the physical layer parsing an address offset contained in the received network data packet.

8. (Original) The method as recited in claim 1, further comprising:
an act of utilizing a configuration interface to configure the physical layer rule register.

9. (Original) The method as recited in claim 8, wherein the act of utilizing a configuration interface to configure the physical layer rules register comprises an act of utilizing an Open Host Controller Interface.

10. (Original) The method as recited in claim 1, wherein the act of comparing at least a portion of the packet data to rule data in a physical layer rule register comprises an act of applying a bit mask to a parsed plurality of bytes of packet data.

11. (Original) The method as recited in claim 10, wherein the act of applying a bit mask to a parsed plurality of bytes of packet data comprises an act of applying a bit mask stored in a physical layer mask register.

12. (Original) The method as recited in claim 11, further comprising:

an act of an act of utilizing a configuration interface to configure the physical layer mask register.

13. (Original) The method as recited in claim 12, wherein the act of utilizing a configuration interface to configure the physical layer mask register comprises an act of utilizing an Open Host Controller Interface.

14. (Original) The method as recited in claim 1, wherein the act of comparing at least a portion of the packet data to rule data in a physical layer rule register comprises an act of comparing a transaction code to rule data.

15. (Original) The method as recited in claim 1, wherein the act of comparing at least a portion of the packet data to rule data in a physical layer rule register comprises an act of comparing an address offset to rule data.

16. (Original) The method as recited in claim 1, wherein the act of determining if the physical layer is to assert a link on signal based on the results of the comparison comprises an act of determining that the physical layer is to assert a Link On signal.

17. (Original) The method as recited in claim 16, wherein the act of determining that the physical layer is to assert a Link On signal comprises an act of determining that the at least a portion of the packet data matches the rule data.

18. (Original) The method as recited in claim 16, further comprising:

an act of asserting a Link On signal.

19. (Original) The method as recited in claim 1, wherein the act of determining if the physical layer is to assert a Link On signal based on the results of the comparison comprises an act of determining that the physical layer is not to assert a Link On signal.

20. (Original) The method as recited in claim 19, wherein the act of determining that the physical layer is not to assert a Link On signal comprises an act of determining that the at least a portion of the packet data does not match the rule data.

21. (Original) The method as recited in claim 1, wherein the receiving computer system comprises a consumer electronics device.

22. (Original) The method as recited in claim 1, wherein the receiving computer system comprises an electronic logic state machine.

23. (Currently Amended) At a receiving computer system that is network connectablecommunicatively coupled to an IEEE 1394 network, a method for waking a link layer at the receiving computer system, the method comprising:

a step for a physical layer identifying packet data contained in a network data packet;

an act of comparing at least a portion of the packet data to rule data in a physical layer rule register;

an act of determining whether a link layer is in a reduced power mode; and

an act of determining if the physical layer is to assert a link-Link en-On signal based on the results of the comparison and upon determining that the link layer is in the reduced power mode, the link-Link en-On signal being a signal that, when received at the link layer, wakes the link layer.

24. (Currently Amended) A computer-readable storage medium having computer-executable instructions for performing the method of claim 1. A computer program product for use in a receiving computer system that is network connectable to an IEEE 1394 network, the computer program product for implementing a method for waking a link layer at the receiving computer system, the computer program product comprising one or more computer readable media having stored thereon computer executable instructions that, when executed by a processor, cause a physical layer at the receiving computer system to perform the following:

receive a network packet from a sending computer system, the sending computer system being network connectable to the IEEE 1394 network;

parse a plurality of bytes of packet data contained in the received network packet;
compare at least a portion of the packet data to rule data in a physical layer rule register; and

determine if the physical layer is to assert a link on signal based on the results of the comparison, the Link On signal being a signal that, when received at the link layer, wakes the corresponding link layer.

25. (Currently Amended) The computer-readable storage medium computer program product as recited in claim 24, wherein computer executable instructions that, when executed, cause aan act of the physical layer at the receiving computer system to parseparsing a plurality of bytes of packet data contained in the received network data packet comprise computer executable instructions that, when executed, cause aan act of the physical layer at the receiving computer system to parseparsing a plurality of bytes of packet data contained in a primary packet.

26. (Currently Amended) The computer program productcomputer-readable storage medium as recited in claim 24, further comprising:

computer executable instructions that, when executed, an act of causing cause a physical layer at the receiving computer system to assert a Link On signal.

27-28. (Cancelled)